

APPENDIX H

"EXPRESS MAIL" Mailing Label Number EI267842785US

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APPENDIX H

Checks Done On Java Byte Codes By Type

Decoding the instruction. This gives us the length to generate the next PC, and the instruction type:

```
pcarg1 = _GET_ILENGTH(_decodeinfo(insn));  
itype = _GET_ITYPE(_decodeinfo(insn));
```

Implement some pre-execution checks based on this:

```
/* Check the input stack state based on the instruction type */  
if (itype <= ITYPE9) {  
    if (itype <= ITYPE1) {  
        check_stack_int(1);  
    }  
    check_stack_int(0);  
}  
else if (itype <= ITYPE12) {  
    check_stack_ref(0);  
}  
else if (itype < ITYPE11) {  
    push(1);  
}
```

Finally, implement some post execution checks:

```
/* Set the output state */  
if (itype <= ITYPE8) {  
    if (itype <= ITYPE6) {  
        if (itype >= ITYPE6) {  
            pop(1);  
        }  
        pop(1);  
    }  
    pop(1);  
}  
else if (itype <= ITYPE10) {  
    set_stack_int(0);  
}  
else if (itype >= ITYPE11 && itype <= ITYPE16) {  
    set_stack_ref(0);  
}
```